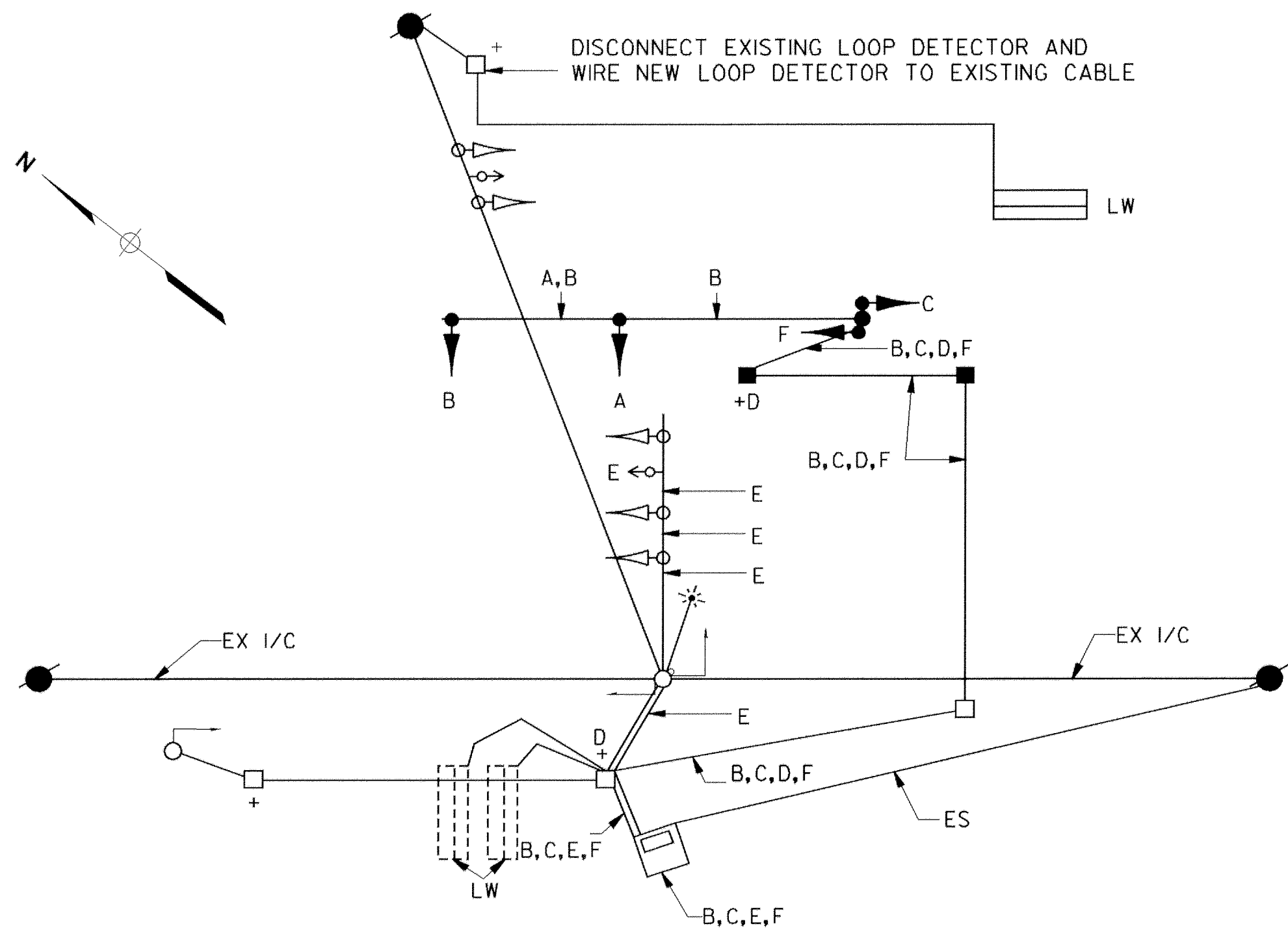


PHASE CHART

	1	2	3	4	5	6	
	(R)	(R)	(R)	(R)	(R)	(R)	
	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	
	(G)	(G)	(G)	(G)	(G)	(G)	
PHASE 1 + 6	R	R	G	G	R	R	←
1 + 6 CHANGE	R	R	G	G	R	R	← T
PHASE 2 + 6	G	G	G	G	R	R	←
2 + 6 CHANGE	Y	Y	Y	Y	R	R	← T
PHASE 4	R	R	R	R	G	G	↑
4 CHANGE	R	R	R	R	Y	Y	↑
PRE-	R	R	G	G	R	R	←
EMPTION 1	R	R	Y	Y	R	R	← T
PRE-	G	G	G	G	R	R	←
EMPTION 2	Y	Y	Y	Y	R	R	← T
FLASHING	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	↑
OPERATION							↑ T

WIRING DIAGRAM



PROJECT DESCRIPTION

GENERAL:

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING INTERSECTION TRAFFIC SIGNAL AND STREET LIGHTING AT MD 235 AND EXPLORATION PARK DR. IN ST. MARY'S COUNTY. MD 235 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION:

1. NORMAL OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA FOUR-PHASE, SEMI-TRAFFIC ACTUATED MODE, WITH THE MD 235 APPROACHES RUNNING CONCURRENTLY. EXCLUSIVE/PERMISSIVE LEFT TURN PHASING WILL BE PROVIDED FOR THE MD 235 NORTH BOUND APPROACH.

2. SPECIAL OPERATION

THE INTERSECTION WILL OPERATE AS INDICATED ABOVE UNLESS THE OPTICOM DEVICE IS ACTIVATED WHICH WILL PRE-EMPT THE TRAFFIC SIGNAL AND STOP THE EB APPROACH OF EXPLORATION PARK DR. AND EITHER THE NB OR SB APPROACHES ON MD 235.

CONTROLLER REQUIREMENTS:

A FULL-TRAFFIC-ACTUATED, EIGHT-PHASE CONTROLLER WITH FOUR (4) FOUR-CHANNEL, TIME DELAY OUTPUT LOOP DETECTOR AMPLIFIERS, INTERSECTION MONITOR WITH BATTERY BACK-UP FOR PHONE DROP, TELEMETRY MODULE, ISOLATION BOARD AND SPECIAL RELAY HOUSED IN A NEMA SIZE "6" BASE MOUNTED CABINET.

SPECIAL NOTE:

UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF SHA AT (410) 787-7631 TO ARRANGE FOR THE PHONE LINE INSTALLATION. THE CONTRACTOR IS TO PROVIDE MR. SNYDER WITH THE NEAREST STREET ADDRESS, ZIP CODE AND PHONE NUMBER.

PROJECT CONTACTS

THE CONTACT PERSONS FOR DISTRICT #5 ARE AS FOLLOWS:

MR. PAUL ARMSTRONG
DISTRICT ENGINEER
PHONE: 410-841-5450

MR. LAWRENCE E. ELLIOTT
ACTING ASSISTANT
DISTRICT ENGINEER - TRAFFIC
PHONE: 410-841-5450

MR. JOHN MAYS
UTILITY ENGINEER
PHONE: 410-841-5450

MR. RICHARD L. DAFF, SR.
CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: 410-787-7630

THE POWER COMPANY REPRESENTATIVE IS:
SOUTHERN MARYLAND ELECTRIC COOPERATIVE (SMECO)
PO BOX 1937
HUGHESVILLE, MD 20637-1937
301-274-3111

WIRING KEY

A	5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)	B, C, F	7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
D	STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)	E	4-CONDUCTOR OPTICOM DETECTOR CABLE (NO. 20 A.W.G.)
		ES	EXISTING SERVICE
		LW	LOOP WIRE (NO. 14 A.W.G.)
		EX I/C	EXISTING INTERCONNECT (12 PAIR COMMUNICATION CABLE, SELF SUPPORTING)
		+	3/4 IN. x 10 FT. GROUND ROD

PHASE 2
TEMPORARY TRAFFIC SIGNAL

SS-22



REVISIONS:	APPROVALS:	MDOT - STATE HIGHWAY ADMINISTRATION Office of Traffic & Safety TRAFFIC ENGINEERING DESIGN DIVISION LOG MILE # 18023513.13	
	CHIEF SIGNAL DESIGN SECTION	DRAWN BY: DED/SMH	MD 235 @ EXPLORATION PARK DRIVE
	ASST. DISTRICT ENGINEER - TRAFFIC	DES. BY: DK/DLA/SMH	SIGNAL PLAN
	CHIEF TRAFFIC ENGINEERING DESIGN DIVISION	CHK. BY: BJH	COUNTY: ST. MARY'S
		DATE: MAY 7, 1999	TS/STD. NO.: 3787A-X2-G11
		SCALE: N.T.S.	SHEET NO. 166 OF 241